1. Alignment and Adjustments

1-1 Tuner

Use a plastic screw driver for adjustments.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

Set of unit

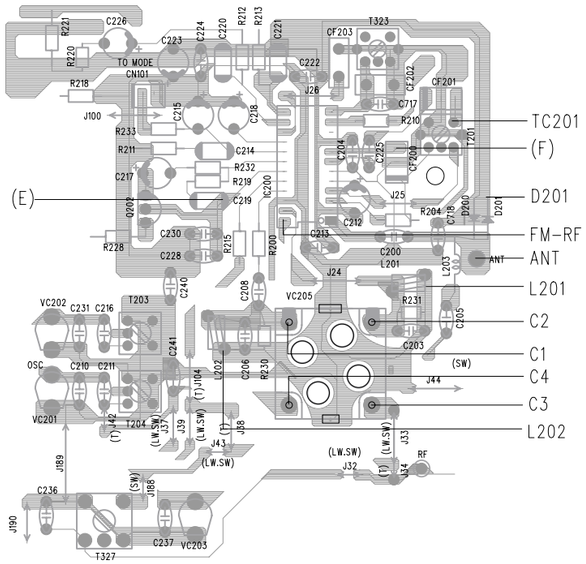
Supply voltage : DC 12.0V

Speaker impedance : 4 ohms

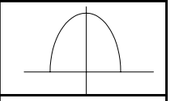
Standard output : 50 mW

Function switch : RADIO

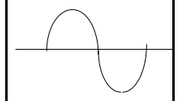
* Parts Location



a. AM Adjustment Band switch : MW

Step	Adjusting Circuit	Connections		SG Frequency	Position of Tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	IF	Closed the output terminal by sweep generator,it place to MW ANT	Connect sweep generator to IC200 IC200(19) PIN(E)	455KHz	Low	TC201	
2	Tuning coverage	Connect AM SG to test loop	Connect VTVM to speaker terminals.	520 KHz	Low end	T203	Max.
3				1650 KHz	High end	C3	
4	Tracking	Connect AM SG to test loop	Connect VTVM to speaker terminals	600 KHz	600 KHz	AM ANT	Max.
5				1400 KHz	1400 KHz	C4	

b. FM Adjustment Band switch : FM FM Dummy antenna : 75 ohms unbalance

Step	Adjusting Circuit	Connection		SG Frequency	position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to IC200 IC200(1)pin (F)	Connect VTVM to generator to IC200(19) PIN	10.7MHz	Low		
2	Tuning coverage	Connect FM SG to ANT & D201	Connect VTVM to speaker terminals.	87.5 MHz	Low end	L202	Max.
3				108.3 MHz	High end	C1	
4	Tracking	Connect FM SG to FM-IN1 & FM-GND	Connect VTVM to speaker terminals.	90.0 MHz	90.0 MHz	L201	Max.
5				106.0 MHz	106.0 MHz	C2	

1-2 Cassette Deck

TAPE DECK ADJUSTMENTS

1. HEAD REPLACEMENT

After replacement, demagnetize. the heads by using a degausser.

Be sure to clean the heads before attempting to make any adjustments.

All wiring should be returned to the original position after work is completed.

2. HEAD AZIMUTH ADJUSTMENT

(1) Load the test tape (MTT-113N, etc., 6.3 KHz) for azimuth adjustment.

(2) Press the PLAY button.

(3) Use a cross-tip screwdriver to turn the screw for azimuth adjustment so thae the left and right output are maximized

(4) Press the STOP button.

(5) After completion of the adjustment, use thread lock(TB-1401B) to secure the azimuth-adjustment screw.

3 MOTOR REPLACEMENT

4 AC BIAS FREQUENCY ADJUSTMENTS

(1) connect counter to C323(BS);

(2) R/P swith in recording state;

(3)Adjusting T321 use a plastic screw,AC bias frequency: 80KHZ..

5 MOTOR SPEED ADJUSTMENT

(1) Insert the test tape(MTT-111N, etc., 3,000 HZ)

(2) Press the PLAY button.

(3) Use a flat-tip screwdriver to turn the SVR(located inside the rear of the motor) to adjust SVR so that the frequency counter become 3,000 HZ